

PATENT CLAIMS

1. Means for splash separation at a dandy roll (1) of a fourdrinier machine, comprising a means (9, 11) for detaching and further conveying water from the dandy roll (1) and a rotating roll (3) for capturing the detached water from the dandy roll (1), **characterized** in that the roll (3) is located in a position completely under an imagined horizontal plane, which goes through the center of the dandy roll (1).

2. Means according to claim 1, **characterized** in that there is a gap between the surface of the roll (3) and the surface of the dandy roll (1), that the roll (3) is parallel to the dandy roll (1) and that the roll (3) and the dandy roll (1) have the same length.

3. Means according to claim 1 or 2, **characterized** in that the means for detaching and further conveying water from the dandy roll (1) comprises a doctor blade (9) positioned at the dandy roll (1) on a level above the center line of the dandy roll (1) and a cover (11), whereby said cover (11) has three joined walls, whereby one wall is substantially parallel to the dandy roll (1) and two walls are at either end of the dandy roll (1).

4. Means according to any of the preceding claims, **characterized** in that a doctor blade (4) is positioned close to the roll (3) for scraping off water from the roll (3) and that a tub (10) is positioned under the doctor blade (4) for collecting the detached water, whereby said tub (10) is positioned by the side of the roll (3).

5. Means according to any of the preceding claims, **characterized** in that the diameter of the roll (3) and the rotational speed are adapted to a desired path of movement of the detached water, whereby the roll (3) rotates at a peripheral speed of 10-400 m/min and preferably 50-250 m/min.

6. Means according to any of the preceding claims,
characterized in that the roll (3) is solid or hollow and
that the circumferential surface is made of a material, or
5 is covered or coated with a material, which is suitable for
capturing water splash, and which gives the roll (3) a
smooth surface.

7. Means according to any of the preceding claims,
characterized in that the roll (3) rests on sliding bars
10 (5) by way of fastening means (7) and sliding ferrules (6)
and that the position of the roll (3) can be adjusted both
vertically and horizontally by means of the fastening means
(7), the sliding ferrules (6) and the sliding bars (5).

8. Means according to any of claims 4-7, **character-**
15 **ized** in that the tub (10) has a circular or rectangular
section, that the tub (10) is open at one or both short
sides (14) in order to divert away collected water and that
the tub (10) receives a tube (12), which constitutes a part
of a steam coil.

20 9. Means according to any of claims 4-8, **character-**
ized in that the doctor blade (4) abuts so tightly against
the roll (3) that the entire amount of water is diverted
over the doctor blade (4).

10. Means according any of claims 4-9, **characterized**
25 in that the respective doctor blade (4, 9) extends along
the length of the whole roll (3) and the length of the
dandy roll (1) and/or that a plurality of doctor blades (4,
9) are positioned above each other at the roll (3) and/or
the dandy roll (1).